June 22, 2005

Page 1 of 1

# Please Direct All Correspondence to Customer Number 20995 TRANSMITTAL LETTER

INFORMATION DISCLOSURE STATEMENT

pplicant

Docket No.:

Christofferson et al.

App. No

10/518,808

PLOUG'N.

Filed

November 29, 2004

For

USE OF BISPHOSPHONIC ACID

DERIVATIVES FOR THE TREATMENT OF CALCIUM PYROPHOSPHATE DEPOSITION DISEASE AND DENTAL

**TREATMENT** 

Examiner

Unknown

Art Unit

1614

#### CERTIFICATE OF MAILING

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

June 22, 2005

(Date)

nan, Ph.D., Reg. No. 45,664

### **Mail Stop Amendment**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### Dear Sir:

Enclosed for filing in the above-identified application are:

- An Information Disclosure Statement and PTO/SB/08 equivalent listing references for **(X)** consideration:
  - (X) Listing 25 references.
  - (X) Enclosing 12 references.
- The Commissioner is hereby authorized to charge any additional fees which may be required, or (X) credit any overpayment, to Account No. 11-1410.
- (X) Return prepaid postcard.

Eric S. Furman, Ph.D. Registration No. 45,664 Attorney of Record Customer No. 20,995 (619) 235-8550

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Examiner

Unknown

Art.Unit

1614

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application is a PTO/SB/08 Equivalent listing 25 references to be considered by the Examiner. Also enclosed are 12 foreign patent references and/or non-patent literature as listed on the Information Disclosure Statement. The 13 U.S. patent references listed on the Information Disclosure Statement are not enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required. If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

By:

Eric S. Furman, Ph.D.

Registration No. 45,664 Attorney of Record

Customer No. 20,995

(619) 235-8550

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	Application No.	10/518,808
O I PENFORMATION DISCLOSURE	Filing Date	November 29, 2004
STATEMENT BY APPLICANT	First Named Inventor	Jorg Christoffersen
	Art Unit	1614
भि र ६ २००५ (Multiple sheets used when necessary)	Examiner	Unknown
SHEET 1 OF 2	Attorney Docket No.	PLOUG1.001APC

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	3,683,080	08-08-1972	Francis	
	2	3,959,458 A	05-25-1976	Oswald, et. al.	
	3	4,216,212	08-05-1980	Flora, et. al.	
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	10	5,438,048	08-01-1995	Nikander, et al.	
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	12	5,882,656	03-16-1999	Bechard, et. al.	
	13	6,221,861	04-24-2001	Seegmiller	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
	14	EP 0 563 096 B1	05-03-2000	Nikander		
	15	EP 0 924 293 A1	06-23-1999	Ceulemans, et. al.		
	16	GB 1 582 694	01-14-1981	Flora		
,	17	JP 10017493 A2	01-20-1998	Masatoshi, et. al.		Abstract Only

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>	
	18	Christoffersen et al. "Growth and precipitation of a monoclinic calcium pyrophosphate tetrahydrate indicating auto-inhibition at pH7," J. Crystal Growth, 212, 500-506.		
	19	Christoffersen et al. "Kinetics and mechanism of dissolution and growth of acicular triclinic calcium pyrophosphate dihydrate," Crystal Growth and Design, 2002, 2, 567-571.		
	20	Christofferson et al. "Vinetics of dissolution of triclinic calcium pyraphosphate dihydrate crystals."		

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**Date Considered** 

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

PTO/SB/08 Equivalent

	Application No.	10/518,808
INFORMATION DISCLOSURE	Filing Date	November 29, 2004
STATEMENT BY APPLICANT	First Named Inventor	Jorg Christoffersen
STATEMENT BY AFFEICANT	Art Unit	1614
(Multiple sheets used when necessary)	Examiner	Unknown
SHEET 2 OF 2	Attorney Docket No.	PLOUG1.001APC

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
_	21	Kenneth P.H. Pritzker. "Crystal-associated Arthropathies: What's New on Old Joints," J. American Geriatrics Society, 28 (1980) 439-445.	
	22	Mandel et al. "Calcium pyrophosphate crystal deposition disease: 15 preparation and characterization of crystals, J. Crystal Growth 87 (1988) 453-462.	
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	24	Ryan et al. "Calcium pyrophosphate crystal deposition disease, pseudogout and articular chondrocalcinosis," In: Arthritis and Allied Conditions, A Textbook in Rheumatology, 13th edition, Vol II; Ed. W.J. Kooperman, 1997, pp. 2103-2125.	
	25	Ryan et al. "Understanding inorganic pyrophosphate metabolism: toward prevention of calcium pyrophosphate dihydrate crystal deposition, Annals of the Rheumatic Diseases 54 (1995) 939-941.	

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Examiner Signature	Date Considered

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.